

whenever the term "complex valued" is used herein, it encompasses either imaginary or real valued signals or the combination of the two which is a complex valued signals. The transmitter 101 operates according to a general approach of linear transmission that particularly includes any one of PAM (Pulse Amplitude Modulation), QAM (Quadrature Amplitude Modulation), PSK (Phase Shift Keying), CAP (Carrierless AM-PM), and NRZ (Non-Return to Zero) transmission methods, among others. The input data bits sequence $b[n]$ is converted to a sequence of I-Q complex valued symbols, $a[n]$, by a bit-to-symbol conversion unit 201, that may comprise a scrambler, a differential encoder, a trellis or a block FEC (Forward Error Correction) encoder, a CRC error protection encoder, a framer, a shell mapper, and/or protocol layer units.

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